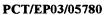
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M4cDNA M6cDNA M8cDNA



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Figure 1A

TGATAAAAT TGATAAAAAT TGATAAAAAT	160 TAAATAATCA TAAATAATCA TAAATAATCA TAAATAATCA	240 GAAAACATT GAAAAACATT GAAAAACATT GAAAAACATT	320 GCTCGAAGCG GCTCGAAGCG GCTCGAAGCG	400 GGTGCAAAGC GGTGCAAAGC GGTGCAAAGC GGTGCAAAGC
	GACAACACAA GACAACACAA GACAACACAA GACAACACAA	CAATACAATG CAATACAATG CAATACAATG CAATACAATG	TTGGTGATGA TTGGTGATGA TTGGTGATGA TTGGTGATGA	CATAATAGAC AAGTGTTGGA CATAATAGAC AAGTGTTGGA CATAATAGAC AAGTGTTGGA CATAATAGAC AAGTGTTGGA
GG AATTCGGCAC GAGAA-1 CIACAAAAA1 GG AATTCGGCAC GAGAAAT GG AATTCGGCAC GAGTGAAAAT CTACAAAAAT GG AATTCGGCAC GAGaa.t ctacaaAAAT	ATTCGCTTTA ATTCGCTTTA ATTCGCTTTA ATTCGCTTTA	TGTAAAAAA GATAATCATA TGTAAAAAA GATAATCATA TGTAAAAAA GATAATCATA TGTAAAAAAA GATAATCATA TGTAAAAAAA GATAATCATA	CGGGCTGACA CGGGCTGACA CGGGCTGACA CGGGCTGACA	
GG AATTCGGCAC GGGCTGCAGG AATTCGGCAC GGGCTGCAGG AATTCGGCACGG AATTCGGCAC	CTTGCATACA TGGCTACATG CTTGCATACA TGGCTACATG CTTGCATACA TGGCTACATG CTTGCATACA TGGCTACATG		TGCAGCTGCT TGCAGCTGCT TGCAGCTGCT TGCAGCTGCT	CAGCACATAA CAGCACATAA CAGCACATAA CAGCACATAA
GGGCTGCA GGGCTGCA	CTTGCATACA CTTGCATACA CTTGCATACA CTTGCATACA	GATAGAAAGT GATAGAAAGT GATAGAAAGT GATAGAAAGT GATAGAAAGT	TTTCGTGGG TTTTCGTGGG TTTTCGTGGG	CACGAATGTG CACGAATGTG CACGAATGTG CACGAATGTG CACGAATGTG
TGGATCCCCC TGGATCCCCC	GAGTCATTGG GAGTCATTGG GAGTCATTGG GAGTCATTGG	GGTACTTTGA GGTACTTTGA GGTACTTTGA GGTACTTTGA	GCAGCGTTTG GCAGCGTTTG GCAGCGTTTG GCAGCGTTTG	GAGGGGCTTA GAGGGGCTTA GAGGGGCTTA GAGGGGCTTA
GCGGCCGCT CTAGAACTAG GGCGGCCGCT CTAGAACTAG	81 AAAAATAAAA ATAACAAAGC AAAAATAAAA ATAACAAAGC AAAAATAAAA ATAACAAAGC AAAAATAAAA ATAACAAAGC	161 GCAATATATA AAGTACCTTC GCAATATATA AAGTACCTTC GCAATATATA AAGTACCTTC GCAATATATA AAGTACCTTC	ATTTGTTAT ATTGTTCACC ATTTTGTTAT ATTGTTCACC ATTTTGTTAT ATTGTTCACC ATTTTGTTAT ATTGTTCACC ATTTTGTTAT ATTGTTCACC	321 GCTCAATTTA ATTCAACAAG GCTCAATTTA ATTCAACAAG GCTCAATTTA ATTCAACAAG GCTCAATTTA ATTCAACAAG
GCGGCCGCT	81 AAAAATAA AAAAATAAAA AAAAATAAAA AAAATTAAAA	161 GCAATATATA GCAATATATA GCAATATATA GCAATATATA	241 ATTTGTTAT ATTTTGTTAT ATTTTGTTAT ATTTTGTTAT	321 GCTCAATTTA GCTCAATTTA GCTCAATTTA GCTCAATTTA
M6cDNA M8cDNA M15cDNA Consensus	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA Consensus	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA Consensus



Figure 1B

480 TTGGGAGGGG TTGGCAGGGG TTGGGAGGGG	560 TGTCACCCAA TGTCACCCAA TGTCACCCAA TGTCACCCAA	640 AAGACAAGAC AAGACAAGAC AAGACAAGAC AAGACAAGAC	720 ATCATTCATA ATCATTCATA ATCATTCATA ATCATTCAT	800 TAGACATAAG TAGACATAAG TAGACATAAG TAGACATAAG
AACTGGCGGA AACTGGCGGA AACTGGCGGA AACTGGCGGA	TTCGTTGTGG TTCGTTGTGG TTCGTTGTGG	GTGATAAACA GTGATAAACA GTGATAAACA GTGATAAACA GTGATAAACA	TTGCAATGTG TTGCAATGTG TTGCAATGTG TTGCAATGTG	ACGGACGCTA AACCAGGACA ACGGACGCTA AACCAGGGCA ACGGACGCTA AACCAGGGCA ACGGACGCTA AACCAGGACA
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CAAGGTTTTG	AAATCCAAAG	TAAAACTTAA	GGTCTCACCA	
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CAAATGCGCG	ACAATGCTGC	GATATGGTCA	CACTTGTGGC	AAGGTGGAAT
CAAATGCGCG	ACAATGCTGC	GATATGGTCA	CACTTGTGGC	AAGGTGGAAT
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AAGCATTAGC	TGTTCAGATG	CTTCAAGAAA	ATGTTGAGAT	AAAGTAACGG
AAGCATTAGC	TGTTCAGATG	CTTTAAGAAA	ATGTTGAGAT	AAAGTAACCG
401	GGTGACTGAT	TGTGGATCAT	641 AATTGATGGA AGAGGTGCAA AATTGATGGA AGAGGTGCAA AATTGATGGA AGAGGTGCAA AATTGATGGA AGAGGTGCAA	ACATGATATT
TGATTGGGAA AAAAACCGAC	GGTGACTGAT	TGTGGATCAT		ACATGATATT
TGATTGGGAA AAAAACCGAC	GGTGACTGAT	TGTGGATCAT		ACATGATATT
TGATTGGGAA AAAAACCGAC	GGTGACTGAT	TGTGGATCAT		ACATGATATT
401	481 AAATCTACGT AAATCTACGT AAATCTACGT AAATCTACGT	561	641	721
TGATTGGGAA AAAAACCGAC		GATAAACCTT	AATTGATGGA	ACATTCACAT
TGATTGGGAA AAAAACCGAC		GATAAACCTT	AATTGATGGA	ACATTCACAT
TGATTGGGAA AAAAACCGAC		GATAAACCTT	AATTGATGGA	ACATTCACAT
TGATTGGGAA AAAAACCGAC		GATAAACCTT	AATTGATGGA	ACATTCACAT
M4cDNA	M4cDNA	M4cDNA	M4cDNA	M4cDNA
M6cDNA	M6cDNA	M6cDNA	M6cDNA	M6cDNA
M8cDNA	M8cDNA	M8cDNA	M8cDNA	M8cDNA
M15cDNA	M15cDNA	M15cDNA	M15cDNA	M15cDNA
Consensus	Consensus	Consensus	Consensus	Consensus

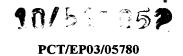


Figure 1C

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CTTAGTCATG CTTAGTCATG CTTAGTCATG CTTAGTCATG	960 TCACCAAAAA ATTCTATTAC TCACCAAAAA ATTCTATTAC TCACCAAAAA ATTCTATTAC TCACCAAAAA ATTCTATTAC	GGTTCGCAGA GGTTCGCAGA GGTTCGCAGA GGTTCGCAGA	TGGGGAACGT TGGGGAACGT TGGGGAACGT TGGGGAACGT	aatgaagaaa aatgaagaaa aatgaagaaa aatgaagaaa
TCATTGCACA TCATTGCACA TCATTGCACA TCATTGCACA	TCCAATTGCA AATTTAGCCA TCCAATTGCA AATTTAGCCA TCCAATTGCA AATTTAGCCA TCCAATTGCA AATTTAGCCA	GCATTCAACA GCATTCAACA GCATTCAACA GCATTCAACA	CTACACCAGC CTACACCAGC CTACACCAGC CTACACCAGC	CGAATGACCC CGAATGACCC CCAATGACCC CGAATGACCC
TATGGATCGA TATGGATCGA TATGGATCGA TATGGATCGA	TCCAATTGCA TCCAATTGCA TCCAATTGCA TCCAATTGCA	AAAAATGCA TGTCACAGTA AAAAAATGCA TGTCACAGTA AAAAAATGCA TGTCACAGTC AAAAAATGCA TGTCACAGTA	TTAACAATGA TTAACAATGA TTAACAATGA TTAACAATGA	TTCCATGCTC TTCCATGCTC TTCCATGCTC
TCTTCAAAGA TCTTCAAAGA TCTTCGAAGA TCTTCAAAGA	CGTTACCATT CGTTACCATT CGTTACCATT CGTTACCATT CGTTACCATT		TTCCAAGTTG TTCCAAGTTG TTCCAAGTTG TTCCAAGTTG	TCCTTAGCCA AGGCAACCGA TCCTTAGCCA AGGCAACCGA TCCTTAGCCA AGGCAACCGA TCCTTAGCCA AGGCAACCGA
TGTTGCTGGT TGTTGCTGGT TGTTGCTGGT TGTTGCTGGT	GTAGCACAGC GTAGCACAGC GTAGCACAGC GTAGCACAGC	GTAGACGATA GTAGACGATA GTAGACGATA GTAGACGATA	ATTTGGATTT ATTTGGATTT ATTTGGATTT ATTTGGATTT	
AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG	GTCACGTTGG GTCACGTTGG GTCACGTTGG GTCACGTTGG	961 TCGGAGCAGA CAATTCACAT TCGGAGCAGA CAATTCACAT TCGGAGCAGA CAATTCACAT TCGGAGCAGA CAATTCACAT	1041 CAAAGAATGC CACGATGTCG CAAAGAATGC CACGATGTCG CAAAGAATGC CACGATGTCG CAAAGAATGC CACGATGTCG	1121 TGGTAGTGCC AATCCTACTA TGGTAGCGCC AATCCTACTA TGGTAGTGCC AATCCTACTA
801 AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG AGCGACGGAG ATGGTATTTG	881 CCTTATTGAT CCTTATTGAT CCTTATTGAT CCTTATTGAT	961 TCGGAGCAGA TCGGAGCAGA TCGGAGCAGA TCGGAGCAGA	1041 CAAAGAATGC CAAAGAATGC CAAAGAATGC CAAAGAATGC	1121 TGGTAGTGCC TGGTAGTGCC TGGTAGTGCCC TGGTAGTGCC
M4cDNA M6cDNA M8cDNA M15cDNA Consensus	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA Consensus

1201

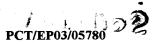


Figure 1D

ददददद	00000000	0 4 4 4 4 4	044444	
TGGAGCTATA TGGAGCTATA TGGAGCTATA TGGAGCTATA	1360 GATCAGCAGT GATCAGCAGT GATCAGCAGT GATCAGCAGT	1440 ACTTTTTTT ACTTTTATT ACTTTTTATT ACTTTTTATT	1520 AGACCATTCA AGACCATTCA AGACCAAAAA AGACCAAAAA	
TGTTAGAAAA TGTTAGAAAA TGTTAGAAAA TGTTAGAAAA		GTTATCACCC GTTATCACCC GTTATCACCC GTTATCACCC	1520 GTGCATTACA AGACCATTCA GTGCATTACA AGACCAAAAA GTGCATTACA AGACCAAAAA GTGCATTACA AGACCAAAAA	
GAGAAAGACT GAGAAAGACT GAGAAAGACT GAGAAAGACT GAGAAAGACT	TTTGATTCCA TTTGATTCCA TTTAATTCCA TTTGATTCCA	CTTGTTAATA CTTGTTAATA CTTGTTAATA CTTGTTAATA	ACATTGATAC ACATTGATAC ACATTGATAC ACATTGATAC	
TTGGAGATCT TTGGAGATCT TTGGAGATCT TTGGAGATCT		CCTGGAAAAC CCTGGAAAAC CCTGGAAAAC CCTGGAAAAC	TAGGATTGTA GTGGAATGAG ACATTGATAC GTGCATTACA AGACCATTCA TAGGATTGTA GTGGAATGAG ACATTGATAC GTGCATTACA AGACCATTCA TAGGATTGTA GTGGAATGAG ACATTGATAC GTGCATTACA AGACCAAAAA TAGGATTGTA GTGGAATGAG ACATTGATAC GTGCATTACA AGACCAAAAA TAGGATTGTA GTGGAATGAG ACATTGATAC GTGCATTACA AGACCAAAAA	1570 AAAAAAAAAA
TGAAGTGGAA TGAAGTGGAA TGAAGTGGAA TGAAGTGGAA TGAAGTGGAA	CCCGCATCTA ACCCCGGAAC AAAAAAGCCA CCCGCATCTA ACCCCGGAAC AAAAAAGCCA CCCGCATCTA ACCCCGGAAC AAAAAAGCCA CCCGCATCTA ACCCCGGAAC AAAAAAGCCA	CAAATGCGTT CAAATGCGTT CAAATGCGTT CAAATGCGTT		1570 GCTACTAT CACATGTTCA CGTTAAAAAA AAAAAAAAAA
ACAGAGTCAA ACAGAGTCAA ACAGAGTCAA ACAGAGTCAA	CCCGCATCTA CCCGCATCTA CCCGCATCTA CCCGCATCTA	CTGGCACGCT CTGGCACGCT CTGGCACGCT CTGGCACGCT	TTATACTIGT TTATACTIGT TTATACTIGT TTATACTIGT	CACATGTTCA
	CAGGGTGCGA CAGGGTGCGA CAGGGTGCGA CAGGGTGCGA	1361 TCTTCAACTC ACCAGTTGTG TCTTCAACTC ACCAGTTGTG TCTTCAACTC ACCAGTTGTG	TTAGCATTTT TTAGCATTTT TTAGCATTTT TTAGCATTTT	TTGCTACTAT
1201 TGAGGGCTGA TGCACCACAT TGAGGGCTGA TGCACCACAT TGAGGGCTGA TGCACCACAT TGAGGGCTGA TGCACCACAT	1281 TTTGTAGCAT TTTGTAGCAT TTTGTAGCAT	1361 TCTTCAACTC AC TCTTCAACTC AC TCTTCAACTC AC	1441 TTTATTGTTA TTTATTGTTA TTTATTGTTA TTTATTGTTA	1521 TCAACATATT TT
M4cDNA M6cDNA M8cDNA M15cDNA Consensus	M4cDNA M6cDNA M8cDNA M15cDNA Consensus	M4cDNA M6cDNA M8cDNA M15cDNA	M4cDNA M6cDNA M8cDNA M15cDNA Consensus	M4cDNA

---- AAAAAA AAAAAAAA tcAAcAtAtt ttgcta..a.aaaaaaa aaaaaaaa TCAACATATT TTGCTAAAAааааааааа аааа ааааааааа ааааа M6cDNA M8cDNA M15cDNA Consensus

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Figure 2

cDNA and amino acid sequences of M4, M6, M15 (identical clones):

MEKHYFVILFTAAFVFVGAA gctcgggctgacattggtgatgagctcgaagcggctcaatttaattcaacaaggagggc A R A D I G D E L E A A Q F N S T R R G ttacacgaatgtgcagcacataacataatagacaagtgttggaggtgcaaagctgattgg LHECAAHNIIDKCWRCKADW gaaaaaaaccgacaagcattagccaaatgcgcgcaaggttttgcaaagggaacaactggc E K N R Q A L A K C A Q G F A K G T T G ggattgggaggggaaatctacgtggtgactgattgttcagatgacaatgctgcaaatcca G L G G E I Y V V T D C S D D N A A N P aagccagggacacttcgttgtggtgtcacccaagataaacctttgtggatcatctttaag K P G T L R C G V T Q D K P L W I I F K aaagatatggtcataaaacttaaacacgagcttgtgataaacaaagacaagacaattgat K D M V I K L K H E L V I N K D K T I D ggaagaggtgcaaatgttgagatcacttgtggcggtctcaccattcacaacgtttgcaat G R G A N V E I T C G G L T I H N V C N gtgatcattcataacattcacatacatgatattaaagtaaccgaaggtggaattattaag V I I H N I H I H D I K V T E G G I I K gcaacggacgctaaaccaggacatagacataagagcgacggagatggtatttgtgttgct A T D A K P G H R H K S D G D G I C V A ggttcttcaaagatatggatcgatcattgcacacttagtcatggtccagatggccttatt G S S K I W I D H C T L S H G P D G L I gatgtcacgttgggtagcacagccgttaccatttccaattgcaaatttagccatcaccaa D V T L G S T A V T I S N C K F S H H Q aaaattctattactcggagcagacaattcacatgtagacgataaaaaaatgcatgtcaca K I L L G A D N S H V D D K K M H V T gtagcattcaacaggttcgcagaagcatgtgatcaaagaatgccacgatgtcgatttgga V A F N R F A E A C D Q R M P R C R F G tttttccaagttgttaacaatgactacaccagctggggaacgtacgccattggtggtagt $\begin{smallmatrix} F & & F & & Q & & V & & N & & N & & D & & Y & & T & & S & & W & & G & & T & & Y & & A & & I & & G & & S \\ \end{smallmatrix}$ gccaatcctactatccttagccaaggcaaccgattccatgctccgaatgacccaatgaag ANPTILSQGNRFHAPNDPMK aaaaatgtgttggtgagggctgatgcaccacatacagagtcaatgaagtggaattggaga K N V L V R A D A P H T E S M K W N W R tctgagaaagacttgttagaaaatggagctatatttgtagcatcagggtgcgacccgcat S E K D L L E N G A I F V A S G C D P H ctaaccccggaacaaaaagccatttgattccagctgaaccaggatcagcagttcttcaa LTPEQKSHLIPAEPGSAVLQ ctcaccagttgtgctggcacgctcaaatgcgttcctggaaaaccttgttaa L T S C A G T L K C V P G K P C -

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Figure 3

cDNA and amino acid sequence of clone M8:

 $\begin{smallmatrix} M \end{smallmatrix} \quad E \quad K \quad H \quad Y \quad F \quad V \quad I \quad L \quad F \quad T \quad A \quad A \quad F \quad V \quad F \quad V \quad G \quad A \quad A$ A R A D I G D E L E A A Q F N S T R R G ttacacgaatgtgcagcacataacataatagacaagtgttggaggtgcaaagctgattgg LHECAAHNIIDKCWRCKADW gaaaaaaaccgacaagcattagccaaatgcgcgcaaggttttgcaaagggaacaactggc EKNRQALAKCAQGFAKGTTG ggattgggaggggaaatctacgtggtgactgattgttcagatgacaatgctgcaaatcca G L G G E I Y V V T D C S D D N A A N P ${\tt aagccagggacacttcgttgtggtgtcacccaagataaacctttgtggatcatcttcaag}$ K P G T L R C G V T Q D K P L W I I F K aaagatatggtcataaaacttaaacacgagcttgtgataaacaaagacaagacaattgat K D M V I K L K H E L V I N K D K T I D ggaagaggtgcaaatgttgagatcacttgtggcggtctcaccattcacaacgtttgcaat G R G A N V E I T C G G L T I H N V C N gtgatcattcataacattcacatacatgatattaaagtaacggaaggtggaattattaag V I I H N I H I H D I K V T E G G I I K gcaacggacgctaaaccagggcatagacataagagcgacggagatggtatttgtgttgct A T D A K P G H R H K S D G D G I C V A ggttcttcgaagatatggatcgatcattgcacacttagtcatggtccagatggccttatt G S S K I W I D H C T L S H G P D G L I gatgtcacgttgggtagcacagccgttaccatttccaattgcaaatttagccatcaccaa D V T L G S T A V T I S N C K F S H H Q aaaattctattactcggagcagacaattcacatgtagacgataaaaaaatgcatgtcaca K I L L G A D N S H V D D K K M H V T gtcgcattcaacaggttcgcagaagcatgtgatcaaagaatgccacgatgtcgatttgga V A F N R F A E A C D Q R M P R C R F G tttttccaagttgttaacaatgactacaccagctggggaacgtacgccattggtggtagc F F Q V V N N D Y T S W G T Y A I G G S gccaatcctactatccttagccaaggcaaccgattccatgctcccaatgacccaatgaag ANPTILSQGNRFHAPNDPMK aaaaatgtgttggtgagggctgatgcaccacatacagagtcaatgaagtggaattggaga tctgagaaagacttgttagaaaatggagctatatttgtagcatcagggtgcgacccgcat S E K D L L E N G A I F V A S G C D P H ctaaccccggaacaaaaagccatttaattccagctgaaccaggatcagcagttcttcaa LTPEQKSHLIPAEPGSAVLQ ctcaccagttgtgctggcacgctcaaatgcgttcctggaaaaccttgttaa L T S C A G T L K C V P G K P C -

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Figure 4

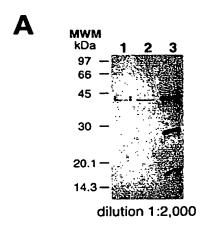
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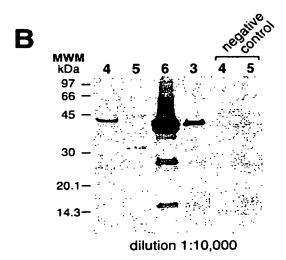
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GGA	GATAT#	L Cat	<i>Nde</i> ATG Met	TCG	TAC Tyr	TAC Tyr	CAT His	CAC	His	CAC His 6xHi	His	CAC	GAT.	TAC <u>Tyr</u>	Asp	ATC Ile Space	Pro	<u>Thr</u>	Thi	2
GAA <u>Glu</u>		Leu EV	Tyr	Phe ease	CAG Gln	Ehe GGC Gly	GCC	ATG	Bam GGA Gly	TCC	GGA	co RI ATT Ile	CAA	Stu AGG Arg	CCT	ACG	Sal I TCG Ser	ACG	Sst I AGC Ser	٦
Ser	Spe ACT A	AGT Ser	GCG Ala	Ala	Ala	TTC Phe	Glu	TCT Ser	Arg		Сув	AGT Ser	Leu	GAG Glu	His	His	His	His	His	
His	on-uni																			



Figure 5

Immunoblot with rabbit anti-Amb a 1 antibodies



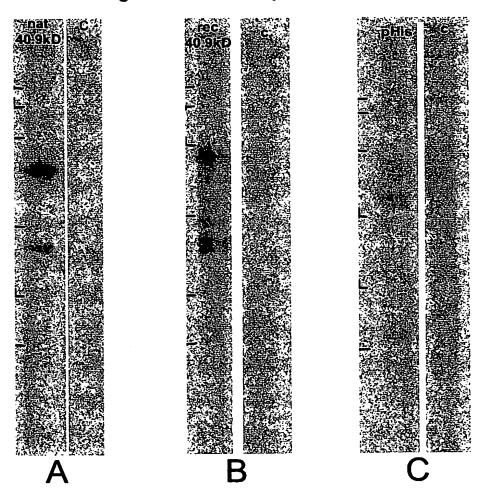


- 1 Mugwort pollen extract
- 2 Purified mugwort pollen allergen
- 3 Purified Amb a 1 from ragweed pollen (natural Amb a 1)
- 4 Recombinant mugwort allergen
- 5 Control bacterial lysate
- 6 Ragweed pollen extract

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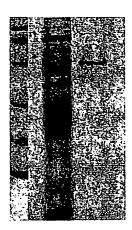
Figure 6

IgE blot with NIH patient



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Figure 7



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